

WHAT IS CLAIMED IS:

1. A cross joint comprising:
yokes each formed with a bearing hole; and
a spider shaft rotatably fitted into said
5 bearing hole through a rolling bearing,
wherein said spider shaft is formed with a
contact portion with said rolling bearing, said
contact portion having its outside diameter larger
than an outside diameter of said spider shaft.
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2. A cross joint according to claim 1, wherein
an end central portion of said contact portion is
formed with a bottomed hole.
- 15 3. A cross joint according to claim 1 or 2,
wherein an extreme-pressure additive is added to a
lubricating agent filling an interior of said needle
bearing.
- 20 4. A cross joint comprising:
yokes each formed with a bearing hole; and
a spider shaft fitted in a possible oscillating
manner into said bearing hole through a needle
bearing,
25 wherein said needle bearing is interference-
fitted to said spider shaft, and
rollers provided in a bearing cup of said

needle bearing are so structured as to be movable 0.6 mm or larger in the axial direction.

- 5 5. A cross joint according to claim 4, wherein
an extreme-pressure additive is added to a
lubricating agent filling an interior of said needle
bearing.